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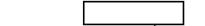
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15 March 1968

## MEMORANDUM FOR THE RECORD

SUBJECT: U-2R, T-35 Single Tracker Nose Installation

- 1. Lockheed Change Proposal U-2R-7 covers the installation of the T-35 tracker in the nose of the U-2R vehicle in lieu of a dual tracker installation in the Q-bay to provide horizon to horizon photographic coverage. This ECP was approved by Materiel on March 13, 1968.
  - 2. A. The tracker provides a self-scoring system for identifying the actual flight path of the vehicle compared to the planned flight path.
  - B. It provides a quick check on the cloud cover over the target area for mission analysis.
  - C. It provides auxiliary photographic coverage in the event of prime payload failure or enemy interception.
  - D. It provides photographic confirmation of vehicle position in emplacement, air sampling, infra red and similar missions.
- 3. The rationale for requiring a single tracker installation rather than a dual tracker installation proposed by the contractor follows:
  - A. Horizon to horizon photographic coverage obtained with a single tracker is easier to read out than dual coverage.
  - B. Only one half the installation, maintenance, processing, etc. required for single tracker.
  - C. Quantity of cameras required to support operational requirements is reduced by one half.
  - D. Nose installation eliminates drag associated with external bubble and attendant hatch fairings.



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Although the nose tracker installation was considered during the U-2R design phase, it now appears to be a change in scope; however, the savings in system complexity and camera quantities will exceed the cost of this ECP.

> Sensor Systems Division Special Activities

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